Shutdown work done

Machine	Description	i/c	Comments
PreAcc	Realigned RFQ and MEBT	Kiyomi/ Bollinger	Untilted RFQ, MEBT quads and set components to Linac reference line.
Linac	Tank 4 drift tube replacement	Kiyomi/Linac group/Mechani cal	Completed. 24 Jul.
Linac	Klystron 2 choke replacement	Kiyomi/Linac group/Mechani cal	Completed. 30 Jul
Linac	Repair ceramic in Tank 7 SCL module	Kiyomi/Mike	Completed
Linac	Toroid calibrations	Aiyshah	Completed.
400 MeV line	Fixed vacuum leak in feedthru connector of wire scanner	Salah/ Mechanical	Completed.
Booster	2 nd harmonic	Tan/Robyn/ John	Cracks will be repaired.
Booster	Repair of cavity #1017 water leak (station 22).	RF group	Installed
Booster	Wide bore cavity	RF group	Waiting
Booster	Various water leaks	Booster group/ Mechanical	Completed.
Booster	Wire scanner in injection girder pulled in L1	Salah/John/ Mechanical	Completed.
Booster	Survey at L11 for PIPII injection line	O'Sheg/ Surveyors	Completed

Surveyors

Startup blues

- Sparking in source A
 - Too much Cs?
- RFQ power drops
 - Bad RF connection between Tomco driver and tube?
- Sparking in MEBT buncher.
 - Beam seems to cause sparking when steered to the left (seen before 7 years ago)

Task force updates

- Injection girder
 - Proposed collimation in BTL to reduce/eliminate waste beam. (Meeting on 08 Oct)
 - Injection at 700 MeV. Saves ~1/2 m of space
- Lattice
 - Method to reduce 1/2 integer proposed.
 - · Studies once Booster starts up
 - Work on effect of removing corrector at L11 (see today's talk)

Digital LLRF

- System is 1/2 way done require RF section.
- Will meet with B. Chase on phase locking scheme between PIPII and Booster.
- Magnet girder tests
 - Set up at E4R
 - Area needs to be cleaned up.
 - Lead person has been identified for install/cleanup: Fernando Juarez (Mechanical)
- 20 Hz infrastructure
 - First meeting held 19 Sep 2019. Docs on beamdocs. A lot of work!
- 2 stage collimators
 - Work will start in November after task code is issued.

Task force updates (cont'd)

- Wide gradient extraction magnets
 - Calculation for gap size to be completed by end of October. Required for TD to start their calculations.
- 20 Hz cavity tests
 - RF cavity tests has been done. Report will be available soon. Talk next meeting
- Shielding assessment
 - First meeting held. M. Vincent (Safety) will be leading.
- Tevatron tunnel mods for BTL
 - New lattice means no more rolled dipoles to get above the ceiling.
 - A beam pipe will go straight through the tunnel. Removed when necessary to move magnets.

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